

NOVEMBER/DECEMBER 2025

**23UEMB32 — CLINICAL LABORATORY
TECHNOLOGY (Elective III)**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Mention the importance of laboratory coat.
2. Define hygiene.
3. Name the anticoagulants used in collection of blood for glucose analysis.
4. Expand the terms CSF and EDTA.
5. Brief the role of microtome.
6. State the importance of embedding.
7. Differentiate the terms fibrinogen and fibrin.
8. Define bleeding time.

9. Name any two accreditation bodies in governing the standards laboratories.

10. Quote the role of CAP and COLA.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Summarize the Safety measures followed in clinical laboratory.

Or

(b) Discuss the role and responsibilities of medical laboratory technician

12. (a) List out the clinical parameters analyzed from urine sample.

Or

(b) Discuss the collection procedure and the importance of amniotic fluid.

13. (a) Give an account on tissue embedding.

Or

(b) Elaborate the importance of microtome in histology.

14. (a) Explain the methods followed in assay of coagulation factors.

Or

(b) Highlight the normal level and abnormal conditions in composition of blood.

15. (a) Write notes on COLA.

Or

Give an account on NABL.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Elaborate the code of conduct and the regulations followed in clinical laboratory.

17. Discuss the steps followed in collection, storage and transport of clinical samples.

18. Write the classification, properties and functions of fixatives.

19. Elaborate the tests used to find the blood coagulation disorders in humans.

20. Explain the role of accreditation bodies in maintaining the standards of clinical laboratory.

